Study Kidney disease	Trial characteristics	Inclusion criteria	Exclusion criteria	Dosing schedules	ITT definition Numbers in trial	Measurements	Duration	Patient characteristics	Oxford quality score	Withdrawals	Efficacy Hb	Efficacy ferritin, TSAT, and reticulocytes	Adverse events
1VIT04004 [44] Qunibi et al. Nephrol Dial Transplant 2010 doi:	control, parallel groupstudy Patients with non- dialysis dependent CKD who required iron supplementation Stratification by degree of renal	included a hemoglobin ± 11.0 gd/L (on two occasions within a week), TSAT ≤ 25%, ferritin ≤ 300 ng/mL, a fixed dose of EPO x 8 weeks (a dose of 0 was permitted) and no parenteral into for 12 weeks GFB < 45 milmin 1.73 sqm Age = 12 years, male or fremale EPO remained unchanged after randomisation	Other types of anaemia or untreated B12 or folate deficiency. Fe storage disorder Recent parenteral iron or lood transfusion, or recent significant blood loss. History of gastrointestinal problems with oral iron current treatment for bronchospasm.	3 If in eeded (at baseline maximum dose was 15 mg/kg if weight below 66 kg) 2 Ferrous sulfate as 325 mg tablets (65 mg elemental iron) orally three times daily with 8 ounces of tap water, 1 hour before meals. Total dose of iron received: FCM = 1218 ± 333 mg (median 1000 mg) Oral iron = 9332 ± 2638 mg (median 10338 mg)	who received at least 1 dose of randomized study medication, had stable EPO for at least 8 weeks before randomization, had at least 1 post- baseline hemoglobin assessment, and	Hb increase ±10 g/L Hb increase ±10 g/L Hb increase ±10 g/L Jus fertifit increase ±160 µg/L Various combinations, ir EPO and non-EPO patients, and adverse events	maximum 27 n weeks Visits on days 0, 14, 28, 43, and 56 after	Age - median 67 years (range 25-89) Women - 67% Caucasian - 53% Black - 27% Other - 20% All had concomitant medical conditions, and all received concomitant medications Baseline Hb - median 103 g/L (range 76-111); 39% ≤100 Ferritin - median 90 μg/L (range 2-301); 52% <100 TSAT - median 15.5% (range 3.5-25), 76% ≤20%	Randomisation = 2 Double blind = 0 Withdrawals = 1 Total = 3/5	All cause FCM = 13/152 Oral iron = 19/103 Adverse event FCM = 4/152 Oral iron = 3/103 Lack of efficacy (EPO, transfusion) FCM = 6/152 Oral iron = 7/103	At some time during study period Hb increase ≥10 g/L at some time FCM = 87/144 Oral iron = 35/101 Hb increase ≥10 g/L plus ferritin increase ≥160 µg/L FCM = 87/144 Oral iron = 0/101 Mean Hb change from baseline to day 56/end of study FCM = 10 ± 11 g/L Oral iron = 7 ± 13 g/L	Ferritin - mean increase by day 56 FCM = 359 ± 178 µg/L Oral iron = 25 ± 49 µg/L TSAT - mean increase by day 56 FCM = 12 ± 8.8% Oral iron = 7.0 ±10.3% Reticulocytes - mean change to day 56 FCM = 0.1 ± 0.7 % Oral iron = 0.01 ± 0.06% (NB all ±2 weeks after iv dosing)	At least 1 adverse event FCM = 64/147 Oral iron = 61/103 Death FCM = 2 (prostate cancer, trauma) Oral iron = 0 Serious adverse events FCM = 13/147 Oral iron = 10/103 (none considered drug related) Hypotension FCM = 5/147 Oral iron = 01/103 (NB all ≥2 weeks after IV dosing)
1VIT04005 [46]	randomised extension study of VIT04004	Patient completing VIT04004, and those discontinuing	As VIT04004 except for treatment with trial drug	Dosing schedule depending on previous scheduled visit results For TSAT ≥30% and ferritin ≥500 µg/L, no FCM For TSAT ≥5% and ferritin <300 µg/L, maximum dose of FCM 1,000 mg (15 mg/kg to 66 kg) Others, maximum FCM 500 mg (15 mg/kg to maximum 500 mg) administed within one week	formed safety ITT	50%, ferritin 100-800 μg/L	Up to 306 days	Age - median 66 years (range 29-90) Women - 67% Caucasian - 52% Black - 27% Other - 21% All had concomitant medical conditions, and all received concomitant medications Baseline Hb - median 105 g/L (range 76-134); 40% ≤100 Ferritin - median 99 μg/L (range 6-370); 64% <100 TSAT - median 18% (range 3.4-29), 83% ≥20	Not applicable	All cause FCM = 41/145 Adverse event FCM = 3/145 Lack of efficacy (EPO, transfusion) FCM = 7/145	Clinical success 72/140 Sustained success 14/140 Mean Hb increase - 19 g/L increase from baseline to highest Hb; 88% ±110 g/L No meaningful changes in reticulocyte count about 1.5%	Mean ferritin increase - 745 µg/L increrase from baseline to highest ferritin; 99% in range 100-800 µg/L Mean TSAT increase - 20% increrase from baseline to highest TSAT, 76% in range 30-50%	

VIT-IV-CL-015 [47]	control, parallel groupstudy	Either sex, aged 18-80 years, with iron deficiency secondary to chronic renal failure requiring dialays. Hb s115 g/L AND serum ferritin 200 yg/L OR TSAT <20% EPO stable for at least 8 weeks if used	treatment Other types of anaemia or untreated B12 or folate deficiency Recent parenteral iron or blood transfusion, or recent significant blood loss	weekly at dialysis until individual calculated dose was reached. FCM (50 mg/mL iron) IV directly into haemodialysis venous line 1 hour after start of session Venofer (iron sucrose; 20 mg/mL iron) injected over		Hb increase ≥10 g/L Clinical success: Hb increase ≥110 g/L (where baseline ≤100 g/L) or ≥120 g/L (where baseline ≥100 g/L); ferrifin 200-800 μg/L; TSAT 20-50%	Four weeks	Provided for PP only: Mean age 52 years (range 22-80) Women - 43% Caucasian - 98% 99% had other medical conditions 39% on EPO Mean iron deficit 1390 mg	Withdrawals = 1 Total = 3/5	All cause FCM = 9/119 Venofer = 16/118 Adverse event FCM = 2/119 Venofer = 7/118 Lack of efficacy (EPO, translusion) FCM = 0/119 Venofer = 0/118	Increase of ≥10 g/L at 4 weeks FCM = 52/118 Venofer = 41/116 Wenter = 41/116 Mean maximum Hb increase FCM = 14 g/L Venofer = 11 g/L Clinical success (Hb ≥110/120 g/L, PP) FCM = 24/97 Venofer = 9/86	Maximum ferritin increase FCM = 714 µg/L Venofer = 520 µg/L Ferritin 200-800 µg/L at week 4 FCM = 64/97 Venofer = 65/86 Maximum TSAT increase FCM = 25% Venofer = 20% TSAT 20-50% at week 4 FCM = 64/97 Venofer = 56/86	At least 1 adverse event FCM = 51/119 Venoter = 47/118 Death FCM = 1/119 (AMI, after withdrawal) Venoter = 0/118 Serious adverse events FCM = 6/119 Venoter = 8/118 Hypotension FCM = 12/119 Venoter = 12/118
53214 [48] Covic & Mircescu. Nephrol Dial Transplant 2010 25: 2722-2730 [49]	Open, non randomised, non comparative study Patients having maintenance haemodialysis	Either sex, aged 18-65 years, having 2 or 3 haelmodialysis sessions a week Clinically stable Hb ±110 g/L AND serum ferritin ±200 µg/L OR TSAT ±20% No new EPO within one month and/or stable dosing	or untreated B12 or folate deficiency Recent parenteral iron or blood transfusion, or	Patients received 200 mg FCM 2 or 3 times per week during each haemodialysis session Maximum dose 2,400 mg Target Hb 150 g/L	received drug, with 150	Various haematological variables	10 weeks	Mean age 45 years (range 18-65) Women - 44% Caucasian - 69% Black/mixed - 28%	Not applicable	17 all cause discontinuations 5 AE discontinuations 2 Lack of efficacy (additional iron preparations)	Mean final Hb increase 10 g/L 73% and 82% Hb increase of ≥10 g/L 2 and 4 weeks after final treatment	Mean final 2 weeks after final treatment ferritin increase 403 µg/L Mean final 2 weeks after final treatment TSAT increase 16%	At least 1 AE 89/162 Death 2/162 (pulmonary tuberculosis, acute heart failure) Serious AE 12/162 Hypotension 8/162
Postpartum ana	emia and heavy utering	bleeding											
VIT-IV-CL-009 [S0] Breymann et al. Int J Gynecol Obstet 2008 101 67-73 [51]	Open-label, multicenter, randomized, active- control, parallel	Women aged ≥18 years with postpartum anaemia within 6 days of delivery. Hb ≤105 g/L (average of two samples of separate days)	days Hypersensitivity to therapies Other types of anaemia	to maximum of 1,000 mg iron per infusion Infusions on Day 1, 8 and 15 to achieve individual iron requirement	FCM = 227 Oral iron = 117	and change over time Target values were Hb - 120-160 g/L; ferritin - 50 800 µg/L; TSAT - 20- 50% Transfusion requirement		Age - mean 28 years (range 18-44) Gaucasian - 99% Gestational age 39 weeks Baseline Hb - mean 96 g/L (range 52-145) Ferritin - mean 38 μg/L (range 0-605) TSAT - mean 12% (range 2-54) Individual iron deficit FCM = 1,370 ± 182 mg Oral iron = 1,384 ± 186 mg		All cause FCM = 29/227 Oral iron = 15/117 Adverse event FCM = 3/227 Oral iron = 1/117 Lack of efficacy (EPO, transfusion) FCM = 0/227 Oral iron = 0/117	Hb responders (week 12) FCM = 152/179 Oral iron = 73/89 Mean Hb change (week 12) FCM = 34 ± 18 g/L Oral iron = 33 ± 17 g/L	Ferritin responders (week 12) FCM = 139/179 Oral iron = 29/89 TSAT responders (week 12) FCM = 139/179 Oral iron = 59/89 Mean ferritin change (week 12) FCM = 124 ± 126 µg/L Oral iron = 11 ± 39 µg/L Mean TSAT change (week 12) FCM = 23 ± 17% Oral iron = 14 ± 14%	At least 1 adverse event FCM = 59/227 Oral iron = 26/117 Death FCM = 0/227 Oral iron = 0/117 Serious adverse events FCM = 2/227 Oral iron = 0/117 Hypotension FCM = 1/227 Oral iron = 0/117 (1 hour after first IV dose)
		Women with postpartum anaemia within 10 days of delivery Hb ${ m s}$ 100 g/L (average of two samples) Ferritin ${ m <}100~\mu{ m G}$ L		iron deficit, and continued	central laboratory Hb values <110 g/L. FCM = 143	Hb increase ≥30 g/L at any time Sustained success - Hb of >120 g/L at end of study Change in Hb, ferritin, TSAT		Age - mean 26 years (range 16-43) (range 16-43) Blood loss on delivery 770 mL (range 600-1500 mL) Baseline Hb - mean 89 g/L (range 57-104) Ferritin - mean 24 µg/L (range 4-124) TSAT - mean 9% (range 2 28)		All cause FCM = 4/143 Oral iron = 9/148 Adverse event FCM = 0/143 Oral iron = 0/148 Lack of efficacy (EPO, transfusion) FCM = 1/143 Oral iron = 1/148	Hb responders (≥120 g/L at any time) FCM = 127/143 FCM = 127/143 Oral iron = 98/148 Increase in Hb ≥30 g/L at any time FCM = 127/139 Oral iron = 95/147 Sustained success FCM = 117/137 Oral iron = 83/143 Success plus ferritin change ≥160 μ g/L any time FCM = 127/139 Oral iron = 01/147 Mean Hb change week 6 FCM = 40 ± 11 g/L	Mean ferritin change (week 6) FCM = 226 ± 118 µg/L Oral iron = 3 ± 20 µg/L Mean TSAT change (week 6) FCM = 29 ±12% Oral iron = 17 ±18%	At least 1 adverse event FCM = 65/142 Oral iron = 83/147 Death FCM = 0/142 Oral iron = 0/147 Serious adverse events FCM = 4/142 Oral iron = 4/147 Hypotension FCM = 1/142 Oral iron = 0/147

1VIT04002 1VIT04003 [54] Van Wyck et al. Transfusion 2009	Open-label, multicenter, randomized, active-	Women aged ≥18 years Hb - average of two samples below 110 g/L, ferritin ≤100 µg/L. TSAT ≤25%	therapies Blood transfusion or	FCM given as slow IV undiluted injection push where iron dose ≤200 mg, and slow IV i infusion over	477 women randomised 456 randomised and received at least one dose	Success defined as increase of Hb from baseline of 20 g/L at any time	Six weeks	Age - mean 39 years (range 18-54) Severe or very severe bleeding - 58%	Randomisation = 2 Double blind = 0 Withdrawals = 1 Total = 3/5	All cause FCM = 19/230 Oral iron = 14/226		Mean ferritin change (week 6) FCM = 175 \pm 133 μ g/L Oral iron = 17 \pm 17 μ g/L	At least 1 adverse event FCM = 157/230 Oral iron = 149/226
Franstusion 2009 49: 2719-2728 [41]	groupstudy Women with anaemia due to heavy uterine bleeding Stratification level of	µg/L. ISAI s25% Heavy uterine bleeding for 6 months: Inability to control with tampons alone - Excessive use of pads or tampons - Passage of clots - Period duration >7 days	weeks EPO within 8 weeks or during study Other types of anaemia or untreated B12 or folate deficiency Fe storage disorder Medication likely to affect vaginal bleeding, or insertion intrauterine contraceptive device, within 8-12 weeks Significant recent vaginal	6 or 15 minutes where dose was 300-1000 mg. Dosing was based on calculated iron deficit, and continued at weekly intervals Oral ferrous sulphate 325 mg three times a day for 6 weeks Total dose of iron received: FCM = 1588 ± 422 mg	FCM = 230 Oral iron = 225 Completers (per protocol) FCM = 211 Oral iron = 212	any time Change in Hb, ferritin, TSAT Combinations of success based on change in Hb, ferritin, and TSAT		bleeding - 58% Black - 48% Caucasian - 27% Hispanic - 22% Baseline Hb - mean 94 g/L (range 49-111); 50% < 59 g/L Ferritin - mean 7 μg/L (range 1-82) TSAT - mean 6% (range 1-25)	Iotal = 95	Adverse event FCM = 2/230 Oral iron = 3/226 Lack of efficacy (EPO, transfusion) FCM = 1/230 Oral iron = 0/226	FCM = 187/228 Oral iron = 139/225 Increase in Hb ≥30 g/L at any time FCM = 121/228 Oral iron = 80/225	Mean TSAT change (week 6) FCM = 19 \pm % Oral iron = 19 \pm 22% Reliculocytes - mean change to week 6 FCM = -0.2 \pm 1.3 % Oral iron = 0.01 \pm 1.1%	Death FCM = 0/230 Oral iron = 0/226 Serious adverse events FCM = 3/230 Oral iron = 3/226 Hypotension FCM = 0/230 Oral iron = 0/226
Van Wyck et al. Obst & Gynecol 2007 110:267- 278 [55]	Open-label, multicenter, randomized, active- control, parallel group study Women with postpartum anaemia Stratification level of anaemia (Hb and ferritin)	Women with postpartum anaemia within 10 days of delivery Hb ≤100 g/L	TSAT ±50%. If problems with iron products Hypersensitivity to therapies Other types of anaemia or untreated B12 or folate deficiency Significant recent vaginal bleeding Other serious illness EPO within 3 months	minutes, depending on volume Oral iron 325 mg tablets three times daily (195 mg	dose of medication) = 352		Six weeks	Age - mean 26 years Caucasian - 83% Baseline Hb - mean 90 \pm 10 g/L Ferritin - mean 24 \pm 30 μ g/L TSAT - mean 10 \pm 6%	Randomisation = 1 Double blind = 0 Withdrawals = 1 Total = 2/5	All cause FCM = 9/174 Oral iron = 16/178 Adverse event FCM = 2/174 Oral iron = 4/178	Oral iron = 115/168 Increase in Hb ≥20 g/L at any time FCM = 163/169	Mean ferritin change (week 6) FCM = 210 µg/L Oral iron = 10 µg/L Mean TSAT change (week 6) FCM = 29% Oral iron = 14%	Death FCM = 1/174 (peripartum cardiomyopathy) Oral iron = 0/178 Serious adverse events FCM = 1/174 Oral iron = 1/178

Gastrointestinal	cause of anaemia												
VIT-IV-CL-03 [56]	Open, uncontrolled cohort study Patients with Hb s110 g/L with stable disease		and serum TfS >45%.	Fe requirement) as IV infusion weekly for up to 4 weeks Cohort 2: 1000 mg (last dose lower depending on				Age - mean 45 years (range 20-61) Women - 78% Caucasian - 100% Baseline Hb - mean 87 g/L Ferritin - mean 4 μg/L TSAT - mean 23%	Not applicable. Cohort 2 begun only when cohort 1 completed	All cause C1 - 6/20 C2 - 7/26 Adverse event or intercurrent illness C1 - 4/20 C2 - 2/26	Increase of ≥20 g/L C1 - 15 at 4 week follow up C2 - 18 aT 4 week follow up Mean Hib change C1 - 39 g/L (week 4) C2 - 17 g/L (week 4) Post treatment - 4 weeks after last dose C1 - 120 g/L "Normal" Hib (≥140 g/L men, ≥120 g/L women) C1 - 15/20 C2 - 121/26	Mean ferritin change C1 = 144 μg/L (week 4) C2 = 401 μg/L (week 2) Mean ferritin change (4 week follow up) C1 = 57 μg/L (week 4) C2 = 95 μg/L (week 2)	At least 1 adverse event C1 - 11/20 C2 - 13/26 Deaths C1 - 0/20 C2 - 0/26 Serious AE C1 - 0/20 C2 - 0/26 No reports of hypotension
VIT-IV-CL-008 [57] Kulnigg et al. Am J Gastroeneterol 2008 24:1507- 1523 [58]	groupstudy Patients with iron deficiency anaemia secondary to chronic inflammatory bowel disease	Adults aged 18-80 years Anaemia secondary to inflammatory bowel disease (Crohn's disease or ulcerative colitis) Hb =110 g/l (mean of two values on different days), AND serum fertim <100 µg/l., OR TSAT <20% iron requirement at least 1,000 mg	deficiency Treatment with	infusion to deliver a maximum of 1,000 mg iron per infusion. Infusions were given on day 1 and weekly until individual iron	196 provided efficacy data (ITT population)	Number achievinbg		Age - mean 43 years (range 19-78) Women - 61% Caucasian - 99% Mean iron deficiency 1,448 mg (range 937-2102 mg) Baseline Hb - mean 87 g/L (range 50-115 g/L) Ferritin - mean 16 μg/L (range 1-383 μg/L) TSAT - mean 8% (range 1-64%)		All cause FCM = 12/137 Oral iron = 11/63 Adverse event FCM = 3/137 Oral iron = 4/63 Lack of efficacy (EPO, transfusion) FCM = 2/137 Oral iron = 0/63	PP data Mean Hb change (week 12) FCM = 38 ± 20 g/L (111) Oral iron = 38 ± 20 g/L (49) Normal Hb week 12 (135-180 men, 120-160 women) FCM = 57/111 Oral iron = 23/49 HB increase ≥20 g/L (week 12) FCM = 90/111 Oral iron = 40/49	PP data Mean ferritin change (week 12) FCM = 72 ± 100 µg/L Oral iron = 20 ± 60 µg/L Ferritin 100-800 µg/L (week 12) FCM = 32/111 Oral iron = 2/49 Mean TSAT change (week 12) FCM = 18 ± 18% Oral iron = 21 ± 25% TSAT 20-50% (week 12) FCM = 48/111 Oral iron = 23/49	At least 1 adverse event FCM = 78/137 Oral iron = 27/63 Deaths FCM = 1/137 (cardiac arrest) Oral iron = 0/63 Serious AE FCM = 9/137 Oral iron = 0/63 No reports of hypotension
		Adults ≥18 years with iron deficiency anaemia (Hb 70-120 g/L (women) or 70-130 g/L (men)) and with mild to moderate inflammatory bowed disease (Chrohn; disease or ulcerative collicis), and niomal levels of vitamin B12 and folic acid	preceding 4 weeks, or EPO treatment. Other exclusions were chronic alcohol abuse, liver disease, or increased transaminases, surgery with blood loss, plus		485 randomised and 483 received at least one dose FCM 244 Iron sucrose 239		12 weeks	Age - Median 39 years (range 18-81) Women-58% Baseline Mean Hb - 102 g/L Mean TSAT - 9.3% Mean ferritin - 16.3 μg/L	Randomisation = 2 Double blind = 0 Withdrawals = 1 Total = 3/5	All cause FCM = 22/244 IS = 26/239 Adverse event FCM = 8/244 IS = 8/239 Lack of efficacy FCM = 0/244 IS = 7/239	ITT data Hb increase ≥20 g/L FCM = 150/240 IS = 115/235 Hb increase ≥20 g/L or normal Hb FCM = 191/240 IS = 167/235 Normal Hb FCM = 166/240 IS = 136/235	ITT data TSAT 20-50% FCM = 117/240 IS = 78/235 Ferritin ≥100 µg/L FCM = 98/240 IS = 60/235	At least 1 adverse event FCM = 34/244 IS = 37/239 Serious AE FCM = 1/244 IS = 0/239 Deaths FCM = 0/244 IS = 0/239

nintestinal cause of anaemia

Iron deficiency	naemia of mixed orig	in											
1VIT05006 [59] Bailie et al. Hemodialysis International 2010 14: 47-54 [35]		Adults >18 years Hb ≤120 g/L, TSAT ≤25%, and If tentin ≤300 µg/L (CKD, IBD), 7 or ≤100 µg/L in other condition	Previously received FCM	Blinded FCM or placebo, maximum 1,000 mg iron, IV over 15 minutes on day 0, with alternate on day 7 Total dose of iron received FCM = 944 ± 155 mg (median 1000) Placebo = 0	12 patients enrolled in pharmacokinetic study	No Hb measures	one week in each crossover arm		Randomisation = 2 Double blind = 2 Withdrawals = 1 Total = 5/5	All cause FCM = 14/592 Placebo = 12/592 Adverse event FCM = 1/592 Placebo = 2/592 Lack of efficacy (EPO, transfusion) FCM = 0/592 Placebo = 1/592	No data	No data	Al least 1 adverse event FCM = 164/559 Placebo = 110/559 Deaths FCM = 1759 (Aeromonas pneumonia) Placebo = 0/559 Serious AE FCM = 2/559 Placebo = 4/559 Hypotension
CARS 1 [60]	Randomised, double blind, parallel, placeb and active controlled trial Patients with CHF, renal faiure, and inflammatory bowel disease		None given	IV FCM or Venofer to calkculated iron deficit with weekly 200 mg doses of iron, then 200 mg every 4 weeks, or placebo IV Total dose of iron received FCM = 1103 ± 279 mg (median 1100) Venofer = 1167 ± 315 mg (median 1200) Placebo = 0	FCM = 30 Venofer = 27 Placebo = 15	Change in Hb, ferritin, TSAT	12 weeks	Mean age about 70 years Women - about 64% Caucasian - 100% Baseline Hb = 123 g/L Ferritin - range of means 17-77 µg/L TSAT - range of means 16 19%	Double blind = 2 Withdrawals = 1 Total = 5/5	All cause FCM = 0/30 Venofer = 3/27 Placebo = 2/15	Mean Hb change by week 12 FCM = 8.0 ± 12 g/L Venofer 9.0 = 11 g/L Placebo = -3 ± 18 g/L	Mean ferritin change by week 12 FCM = 254 ± 145 µg/L Venofter 230 ± 119 µg/L Placebo = 0 ± 82 µg/L Mean TSAT change by week 12 FCM = 8.7 ± 13% Venofer 8.5 ± 5.6% Placebo = -2.3 ±12%	Typodendol FOM = 0.1550 Planehn = 1.550 At least 1 adverse event FOM = 15/30 Venofer = 1227 Placebo = 10/15 Death FCM = 0/30 Venofer = 1/27 (cardiac failure) Placebo = 0/15 Serious AE FCM = 3/30 Venofer = 5/27 Placebo = 2/15
Heart failure Anker et al. NEJM 2009 361: 2436-48 [42]	Randomised, multicentre, double blind, parallel group placebo comparison i patients with heart failure and iron deficiency Startified by country	Ambulatory CHF patients NYHA c;ass II or III LVEF=40% (i) or 45% (iII) n Ferrith =100 µg/L or 100-300 when TSAT =20% Hb 95-135 g/L	Anaemia other than iron deficiency Active infections AST-3 ULN History of translution, EPO, or parenteral iron ir last 3 months Unstable angina Major cardiovascular intervention within 3 months	repletion calculated at baseline Intravenous bolus of 200 mg iron (4 mL) weekly unti	459 patients randomised and drug administered FCM = 304 Placebo = 155	Patient Global Assessment, and NYH/H functional class at week 24 Measurements of Hb, ferritin, and TSAT, and week 24 results reported according to initial Hb level		Mean age 67 years Women - 53% Hypertension - 81% Baseline Hb - mean 119 g/L Ferritin - mean 15 µg/L TSAT - mean 17%	Randomisation = 2 Double blind = 2 Withdrawals = 1 Total = 5/5	All cause FCM = 26/304 Placebo = 20/155	Final Hb Mean Hb at 24 weeks when initial baseline Hb ≤120 g/L FCM = 127 g/L Placebo = 118 g/L Final Hb Mean Hb at 24 weeks when initial baseline Hb >120 g/L FCM = 133 g/L Placebo = 132 g/L	Final ferritin when initial Mean ferritin at 24 weeks when baseline Hb ≤120 g/L FCM = 275 µg/L Placebo = 68 µg/L Final ferritin when initial Mean ferritin at 24 weeks when baseline Hb >120 g/L FCM = 349 µg/L Placebo = 80 µg/L Final TSAT when initial Mean TSAT at 24 weeks when baseline Hb ≤120 g/L FCM = 29% Placebo = 17% Final TSAT when initial Mean TSAT at 24 weeks when baseline Hb >120 g/L FCM = 390% FCM = 390% FCM = 390% FCM = 390% Placebo = 22%	FCM = 5/304 (4 cardiovascular causes) Placebo = 4/155 (cardiovascular causes)